AMSAT News Service Weekly Bulletins
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SB SAT @ AMSAT $ANS-261.01
STS-58 SAREX MISSION INFO

HR AMSAT NEWS SERVICE BULLETIN 261.01 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 18, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-261.01

KA3HDO Provides STS-58 SAREX Mission Information

The STS-58 flight of the Space Shuttle Columbia represents the next mission carrying the Shuttle Amateur Radio Experiment (SAREX). STS-58 is currently scheduled for launch on 14-OCT-93 at 14:53 UTC. Spacelab Life Sciences-2 is the primary payload on-board STS-58. During the 13 day (extended duration) flight, the astronauts will conduct around-the-clock experiments on themselves and on living organisms carried in the spacelab module.

The SAREX operations on this flight include voice and packet. Discussions between the astronauts and the SAREX working group indicates that there will be more general contact operations on this flight than was performed on each of the three SAREX flight flown this year. Please remember that this is a preflight prediction. The astronauts and the SAREX working group cannot guarantee this prediction. The following information gives more details on SAREX operations for STS-58.

STS-58 Shuttle Amateur Radio Experiment (SAREX)
Information Sheet

Mission:	STS-58 Space Shuttle Columbia Spacelab Life Sciences-2 (SLS-2) Mission
Launch:	October 14, 1993, 14:53 UTC
Orbit:	39 degrees orbital inclination
Mission Length:	13 days (Nominal)
Amateur Radio Operators:	Bill McArthur (KC5ACR), Marty Fettman (KC5AXA), Rick Searfoss, Callsign TBD
Modes:	FM Voice Prime callsign KC5ACR Packet Radio Callsign W5RRR-1
Frequencies:	All operations in split mode. Do not transmit on the downlink frequency.
Voice Freqs:	Downlink: 145.55 MHz (Worldwide) Uplinks: 144.91, 144.93, 144.95, 144.97, 144.99 MHz (Except Europe) 144.70, 144.75, 144.80 MHz (Europe only)

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                        Note:  the crew will not favor any specific uplink
                        frequency, so your ability to work the crew will
                        be the "luck of the draw."

Packet Freqs:   Downlink:       145.55 MHz
                Uplink:         144.49 MHz

Info:   Goddard Amateur Radio Club, WA3NAN, Greenbelt Maryland,
        SAREX Bulletins and Shuttle Retransmissions
        3.860 MHz, 7.185 MHz, 14.295 MHz, 21.395 MHz, 28.650 MHz
        and 147.450 MHz (FM)

        Johnson Space Center ARC, W5RRR, Houston, Texas
        SAREX Bulletins 7.225 MHz, 14.280 MHz, 21.395 MHz,
        28.650 MHz, (SSB) and 146.64 MHz (FM)

        ARRL Amateur Radio Station, W1AW, Newington, CT
        SAREX News Bulletins
        3.990, 7.290, 14.290, 18.160, 21.390, and 28.590 MHz
        and 147.555 MHz (FM)

        Also, bulletins available on internet, via AMSAT ANS,
        Compuserve, and your local PBSS.

School Group Participation:     18 school groups will participate
                                in SAREX with pre-scheduled direct
                                and telebridge contacts.  These include
                                17 in the U.S., and one France.

Prelaunch Keplerian Elements:


The following Keplerian Elements are provided by Gil Carman (WA5NOM)
at the Johnson Space Center ARC:

STS-58
1 00058U          93287.67747791  .00119475  00000-0  26040-3 0    50
2 00058  39.0114 124.6663 0007676 272.4217  87.5676 15.96123499    22

Satellite: STS-58
Catalog number: 00058
Epoch time:      93287.67747791   =    (14-OCT-93 16:15:34.09 UTC)
Element set:     005
Inclination:       39.0114 deg
RA of node:       124.6663 deg           Space Shuttle Flight STS-58
Eccentricity:     .0007676              Prelaunch Element set JSC-005
Arg of perigee:   272.4217 deg          Launch:  14-OCT-93  14:53 UTC
Mean anomaly:      87.5676 deg
Mean motion:   15.96123499 rev/day           Gil Carman, WA5NOM
Decay rate:    1.19475e-03 rev/day*2      NASA Johnson Space Center
Epoch rev:               2
Checksum:              329

[The AMSAT News Service (ANS) would like to thank Frank Bauer (KA3HDO) for
 this bulletin item.]

/EX
SB SAT @ AMSAT   $ANS-261.02
AMSAT-CE information

HR AMSAT NEWS SERVICE BULLETIN 261.02 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 18, 1993
TO ALL RADIO AMATEURS BT
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AMSAT Chile Information

The Foundation for the Development of Satellites for Radio Amateurs
(Fundacion de Desarrollo de Satelites de Aficionados a las Radio-
omunicaciones) or AMSAT-CE was a foundation created by the Chilean
Federation of Radio Amateurs Clubs on 23-APR-1992.
Its objectives are scientific and technological in nature and are expected
to be realized in the design, construction, launch and operation of amateur
radio experimental satellites, in the transfer of technology and in other
experiments related to space communications.

AMSAT-CE is a non profit amateur organization which is directed by a
Council composed of nine members, all of them licensed radio amateurs:
CE2MH Ignacio, President; CE3LD Italo, Vicepresident; CE3AFC Axel,
Secretary; CE2HI Carlos, Treasurer; and CE3MVK Victor, CE3GA Eduardo,
CE3EOA Patricio, CE3AYS Mario and CE5NG Klaus, Counselors.

Its first project CESAR-1 will be implemented using the new AMSAT-NA
satellite bus concept known as "MICROSAT." An agreement for joint cooper-
ation between AMSAT-NA and AMSAT-CE was signed on January 20, 1993.

For those interested in finding out more about AMSAT-CE, the address of
AMSAT-CE is:

        Avda. Portales 4040, Casa 439
        P. O. Box 40 Correo 5 Santiago
        Telephone 56 - 2 - 773 7831
        E-mail   amsat-ce@cecux1.cec.uchile.cl
        Quinta Normal, Santiago, Chile

[The AMSAT News Service (ANS) would like to thank Ignacio Martinez (CE2MH)
 for this bulletin item.]

/EX
SB SAT @ AMSAT $ANS-261.03
AMSAT OPS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 261.03 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 18, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-261.03

Current AMSAT Operations Net Schedule For AO-13

AMSAT Operations Nets are planned for the following times. Mode-B Nets
are conducted on AO-13 on a downlink frequency of 145.950 MHz. If, at the
start of the OPS Net, the frequency of 145.950 MHz is being used for a QSO,
OPS Net enthusiasts are asked to move to the alternate frequency of 145.955
MHz.

Date	UTC	Mode	Phs	NCS	Alt NCS
2-Oct-93	1400	B	160	WA5ZIB	WJ9F
9-Oct-93	1500	B	101	W9ODI	N7NQM
23-Oct-93	1315	B	154	WB6LLO	WA5ZIB

Any stations with information on current events would be most welcomed.
Also, those interested in discussing technical issues or who have questions
about any particular aspect of OSCAR statellite operations, are encouraged
to join the OPS Nets. In the unlikely event that either the Net Control
Station (NCS) or the alternate do not call on frequency, any participant is

invited to act as the NCS.

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Slow Scan Television on AO-13

SSTV sessions will be held on immediately after the OPS Nets a downlink
on a Mode-B downlink frequency 145.960 MHz.

/EX
SB SAT @ AMSAT $ANS-261.04
WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 261.04 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 18, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-261.04

Weekly OSCAR Status Reports: 18-SEP-93

AO-13: Current Transponder Operating Schedule:
L QST *** AO-13 TRANSPONDER SCHEDULE *** 1993 Aug 16-Oct 25
Mode-B : MA 0 to MA 60 !
Mode-BS : MA 60 to MA 120 !<- after Aug 30 (hopefully)
Mode-S : MA 120 to MA 145 !<- S transponder; B trsp. is OFF
Mode-S : MA 145 to MA 150 !<- S beacon only
Mode-BS : MA 150 to MA 180 ! Alon/Alat 180/0
Mode-B : MA 180 to MA 256 !
Omnis : MA 230 to MA 40 ! Move to attitude 210/0, 25-Oct-93
Continuous up-to-date information about AO-13 operations is always available on the
beacons at 145.812 MHz and 2400.646 MHz in CW, RTTY and 400 bps PSK. Also, these
bulletins are also posted to INTERNET, ANS bulletins, Packet, PACSATs, etc., and can also
be found in many international newsletters. [G3RUH/DB2OS/VK5AGR]

AO-13 DX: To let all interested parties know, Pino (I0DUD), Antonio (I0JX)
and WB6GYD will be conducting AO-13 Mode-B operations from the Vatican on
Saturday, 25-SEPT-93 starting approximately 05:00 UTC and again on Sunday,
26-SEP-930. The call sign will be announced at that time and a QSL route
will be established. This operation was previously announced in Oscar
Satellite Report. In addition, they plan to spend Friday night (probably
20:00 until 05:00 UTC Sept 24-25 at the Vatican and operate on 20/30/40
meters. All are invited look for them and make a DX contact. [WB6GYD]

AO-16: Operating normally. [WH6I]

UO-22: Operating normally. [WH6I]

KO-23: Operating normally. [WH6I]

MIR: WD8LAQ reports that he heard R0MIR on voice and that stations
who wish to also work MIR should understand that the MIR crew is working
under Moscow time, which is four hours ahead of UTC. This means that their
"free" pre-sleep time (about 12 Noon until 2 P.M. EDT) is a prime window of
opportunity for them to be "playing" ham radio during the week. Under
normal circumstances, WD8LAQ understands that the MIR crew gets all day
Sunday off. WD8LAQ called R0MIR while at hamfest on 145.550 MHz FM voice
not expecting much at about 2 P.M. After a couple calls R0MIR came booming
in at a signal strength of 20 over S9! Some onlookers could not believe it
was really one of the MIR crew because of the strong signal. WD8LAQ is
sure they heard him but it sounded like R0MIR was in QSO with someone else.
R0MIR said to look for him on the next pass.

ARSENE: ARSENE satellite is no longer responding to telecommands sent by
FF1STA station at ENSAE School in Toulouse. Numerous commands have been

sent to try to reactivate the satellite without success. It has been since 09-SEP-93 around 00:00 UTC that the last ARSENE signals were heard in Mode-S and FF1STA has not receive any more telemetry from the satellite. The transmissions stopped at the moment ARSENE was coming out of a one hour eclipse period. Contrasting this with before, the SHF power stage temperature never reached more than 42 degrees Celsius before entering into the Earth shadow. The temperature dropped by ten degrees when in the eclipse part of the orbit. FF1STA command station was able to observe telemetry data indicating that automatic system for eclipse power conditions was working fine. All collected telemetry data before the failure is carefully being investigated by ARSENE experts. There will be one last effort to recover ARSENE in the coming week using the FC1ELL EME station in Argenteuil, France near Paris with an 8M dish and high power UHF transmitter. [F6BVP]

RS-12: KB0J was still able to make an "over-the-horizon" DX contact with HK1LAQ on 29.427 MHz and also CY9R on 29.423. The later station was on a "DX-pedition" to ST. Paul Island. Please remember that the uplink for RS-12 is on 15M and the downlink is 10M. [K0BJ]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly OSCAR status reports. If you have a favorite OSCAR which you work on a regular basis and would like to contribute to this bulletin, please send your observations to WD0HHU at his CompuServe address of 70524,2272, on INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO area, WD0HHU @ W0LJF.#NECO.CO.USA.NOAM. Also, if you find that the current set of orbital elements are not generating the correct AOS/LOS times at your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL. The information you provide will be of value to all OSCAR enthusiasts.

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SB SAT @ AMSAT $ANS-261.05
IT ON QRZ CD ROM

HR AMSAT NEWS SERVICE BULLETIN 261.05 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 18, 1993
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INTANTTRACK Showing Up On QRZ CD ROM

It has come to attention of AMSAT that InstantTrack has been appearing on a CD ROM called QRZ. Some have asked if IT has become shareware. It is emphasised that InstantTrack is not, nor has it ever been shareware. The popular tracking program is the creation of Franklin Antonio who has very kindly offered it to AMSAT as a fund raiseing tool. However, Franklin retains the copyright. Whatever steps have been or are being taken in response to this copyright violation are in his hands.

Franklin has requested that anyone who has bought a QRZ CD ROM containing InstantTrack to please provide him with the following information:

1. Your name and address.

2. Where, when it was purchased. If you purchased the disk in a store, the name and address of the store would be helpful. If you don't know the address, name of store and city is acceptable.

3. A statement that your copy of QRZ CD-ROM does contain InstantTrack. (Look in misc/dl_files/it_track.exe, though it might be elsewhere in different versions of the CD-ROM.)

4. Version #, or date appearing on face of QRZ CD-ROM. (or just

xerox the front of the CD-ROM for identification.)

Please address corespondance to:

Franklin Antonio
2765 Cordoba Cove
Del Mar, CA 92014.

Email may also be used but a written letter is preferrd in situations such as this. The email address is: antonio@qualcomm.com.

/EX